

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

LISTING OF CLAIMS:

1. (original): An internal-surface-scanning image recording apparatus for applying a light beam modulated with image information to a photosensitive medium mounted on a partly cylindrical inner circumferential surface of a support to record an image on the photosensitive medium, comprising:

a light source for outputting the light beam modulated with the image information;
a plurality of exposure heads disposed on a circular surface at an angularly spaced interval, for guiding the light beam outputted from said light source to the photosensitive medium; and

a switcher disposed between said light source and said exposure heads, for guiding the light beam outputted from said light source to a selected one of said exposure heads which faces the photosensitive medium;

whereby said light beam can be guided selectively to the exposure heads to record an image on said photosensitive medium.

2. (original): An internal-surface-scanning image recording apparatus according to claim 1, wherein said light source, said switcher, and said exposure heads are connected by optical fibers.

3. (original): An internal-surface-scanning image apparatus according to claim 1, wherein said light source comprises a plurality of laser diodes for outputting respective laser beams to be modulated with the image information, each of said exposure heads having means for applying said laser beams outputted from said laser diodes simultaneously to said photosensitive medium.

4. (original): An internal-surface-scanning image recording apparatus according to claim 1, wherein said angularly spaced interval at which said exposure heads are disposed on the circular surface corresponds to an angle subtended by said partly cylindrical inner circumferential surface at a central axis thereof.

5. (original): An internal-surface-scanning image recording apparatus according to claim 1, wherein said switcher comprises optical waveguides for electrically controlling a path of said light beam.

6. (original): An internal-surface-scanning image recording apparatus according to claim 1, further comprising an optical fiber connected to said light source, wherein said switcher comprises a movable member for selectively connecting said optical fiber to said exposure heads.

7. (new): An internal-surface-scanning image recording apparatus according to claim 6, wherein said movable member aligns said optical fiber connected to said light source with an optical fiber connected to a respective one of said exposure heads.

8. (new): An internal-surface-scanning image recording apparatus according to claim 5, wherein said switcher guides said light beam to a desired output waveguide by application of control voltages to said switcher.

9. (new): An internal-surface-scanning image recording apparatus according to claim 1, wherein said circular surface has an axis of rotation coinciding with a central axis of said partly cylindrical inner circumferential surface.

10. (new): An internal-surface-scanning image recording apparatus according to claim 1, wherein said light beam is guided to a selected one of said exposure heads which enters a recording range of the photosensitive medium.

11. (new): An internal-surface-scanning image recording apparatus according to claim 1, wherein said light source, said plurality of exposure heads and said switcher are rotatable about a central axis of the partly cylindrical inner circumferential surface in a main scanning direction.

12. (new): An internal-surface-scanning image recording apparatus according to claim 1, further comprising an encoder which detects angular positions of said plurality of exposure heads, wherein said switcher is controlled by a detection result of said encoder.

13. (new): An internal-surface-scanning image recording apparatus according to claim 1, wherein when one of said plurality of exposure heads first enters a recording range of said

photosensitive medium, said switcher guides said light beam to said one of said plurality of exposure heads to record an image on said photosensitive medium, said switcher guiding said light beam to another one of said plurality of exposure heads to continue recording said image when said another one of said plurality of exposure heads enters the recording range of said photosensitive medium.

14. (new): An internal-surface-scanning image recording apparatus according to claim 11, wherein when one of said plurality of exposure heads first enters a recording range of said photosensitive medium, said switcher guides said light beam to said one of said plurality of exposure heads to record an image on said photosensitive medium, said switcher guiding said light beam to another one of said plurality of exposure heads to continue recording said image when said another one of said plurality of exposure heads enters the recording range of said photosensitive medium.

15. (new): An internal-surface-scanning image recording apparatus according to claim 1, wherein said plurality of exposure heads are disposed on a portion of the same circular surface.